

Title (en)  
Heater, especially for kitchen appliances

Title (de)  
Heizer, insbesondere für Küchengeräte

Title (fr)  
Élément chauffant, en particulier pour appareils de cuisine

Publication  
**EP 0590315 B1 20011219 (DE)**

Application  
**EP 93113723 A 19930827**

Priority  
DE 4229375 A 19920903

Abstract (en)  
[origin: EP0590315A2] At least one radiant heating resistor (10) consisting of a corrugated flat material strip has projections (28) which project in different directions from a corrugated longitudinal edge (14), on the one hand engaged in insulation (3) for retention and on the other hand form longitudinal sections (39) of slightly reduced electrical resistance, which longitudinal sections (39) appear dark in comparison with the interposed visibly glowing longitudinal sections (38) at the normal operating power. In consequence, when brought into use, this results in the corresponding longitudinal sections (38) illuminating in a manner which starts very quickly, is in the form of a point and then spreads to form a corrugated line, as well as the heating resistor (10) being anchored very reliably. <IMAGE>

IPC 1-7  
**H05B 3/74**; H05B 3/68

IPC 8 full level  
**F24C 7/04** (2006.01); **H05B 3/06** (2006.01); **H05B 3/10** (2006.01); **H05B 3/68** (2006.01); **H05B 3/74** (2006.01)

CPC (source: EP US)  
**H05B 3/748** (2013.01 - EP US)

Cited by  
GB2290688A; DE19856669A1; DE102004024044A1; DE10307246A1; DE102013216290B4; DE102022200226A1; US6184502B1; EP1750484A1; DE202013007643U1; DE102021202314A1; WO2022189541A2; DE102012002163A1; WO2013113703A1; DE102013216290A1; EP2844029A1; US7053340B2; EP3883339A1

Designated contracting state (EPC)  
AT CH DE ES FR GB GR IT LI SE

DOCDB simple family (publication)  
**US 5498853 A 19960312**; AT E211348 T1 20020115; AU 4605393 A 19940310; AU 5616696 A 19960829; AU 667563 B2 19960328; AU 692708 B2 19980611; CN 1091581 A 19940831; CN 1130953 C 20031210; DE 4229375 A1 19940310; DE 4229375 C2 20000504; DE 59310253 C5 20100107; DE 59310253 D1 20020131; EP 0590315 A2 19940406; EP 0590315 A3 19941228; EP 0590315 B1 20011219; ES 2170061 T3 20020801; JP 2003303663 A 20031024; JP 3458904 B2 20031020; JP H06229564 A 19940816; SI 9300457 A 19940331; SI 9300457 B 20031231; TR 27591 A 19950613; TW 321820 B 19971201; ZA 936467 B 19940322

DOCDB simple family (application)  
**US 11751993 A 19930903**; AT 93113723 T 19930827; AU 4605393 A 19930901; AU 5616696 A 19960621; CN 93118972 A 19930903; DE 4229375 A 19920903; DE 59310253 T 19930827; EP 93113723 A 19930827; ES 93113723 T 19930827; JP 2003140201 A 20030519; JP 24211793 A 19930903; SI 9300457 A 19930903; TR 78493 A 19930903; TW 82103725 A 19930512; ZA 936467 A 19930902